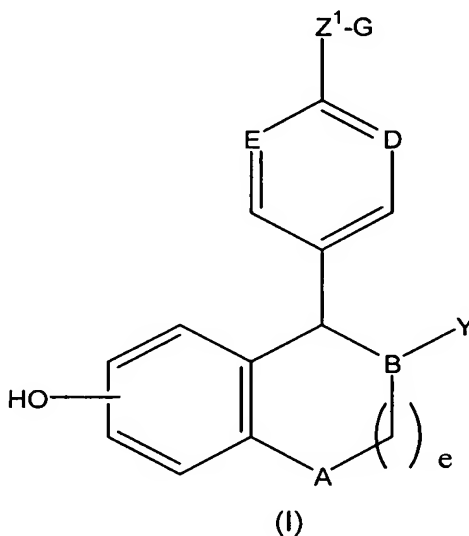


# Claims

What is claimed is:

- 5 1. A method of treating cancer of the liver, ovarian cancer, a desmoid tumor, glioma, pancreatic cancer, or renal cell carcinoma, the method comprising the step of administering to a patient having cancer of the liver, ovarian cancer, a desmoid tumor, glioma, pancreatic cancer, or renal cell carcinoma a therapeutically effective amount of an estrogen agonist / antagonist that is a compound of formula (I):

10



wherein:

- A is selected from CH<sub>2</sub> and NR;
- 15 B, D and E are independently selected from CH and N;
- Y is
  - (a) phenyl, optionally substituted with 1-3 substituents independently selected from R<sup>4</sup>;
  - (b) naphthyl, optionally substituted with 1-3 substituents independently selected from R<sup>4</sup>;
  - 20 (c) C<sub>3</sub>-C<sub>8</sub> cycloalkyl, optionally substituted with 1-2 substituents independently selected from R<sup>4</sup>;
  - (d) C<sub>3</sub>-C<sub>8</sub> cycloalkenyl, optionally substituted with 1-2 substituents independently selected from R<sup>4</sup>;

(e) a five membered heterocycle containing up to two heteroatoms selected from the group consisting of -O-, -NR<sup>2</sup>- and -S(O)<sub>n</sub>-, optionally substituted with 1-3 substituents independently selected from R<sup>4</sup>;

(f) a six membered heterocycle containing up to two heteroatoms selected from the group consisting of -O-, -NR<sup>2</sup>- and -S(O)<sub>n</sub>-, optionally substituted with 1-3 substituents independently selected from R<sup>4</sup>; or

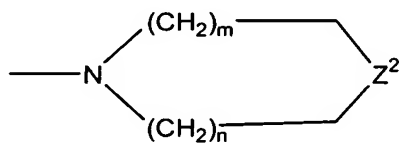
(g) a bicyclic ring system consisting of a five or six membered heterocyclic ring fused to a phenyl ring, said heterocyclic ring containing up to two heteroatoms selected from the group consisting of -O-, -NR<sup>2</sup>- and -S(O)<sub>n</sub>-, optionally substituted with 1-3 substituents independently selected from R<sup>4</sup>;

Z<sup>1</sup> is

- (a) -(CH<sub>2</sub>)<sub>p</sub> W(CH<sub>2</sub>)<sub>q</sub>-;
- (b) -O(CH<sub>2</sub>)<sub>p</sub> CR<sup>5</sup>R<sup>6</sup>-;
- (c) -O(CH<sub>2</sub>)<sub>p</sub>W(CH<sub>2</sub>)<sub>q</sub>-;
- (d) -OCHR<sup>2</sup>CHR<sup>3</sup>-; or
- (e) -SCHR<sup>2</sup>CHR<sup>3</sup>-;

G is

- (a) -NR<sup>7</sup>R<sup>8</sup>;

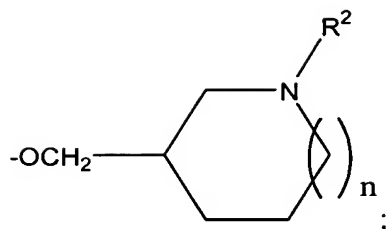


- (b)

wherein n is 0, 1 or 2; m is 1, 2 or 3; Z<sup>2</sup> is -NH-, -O-, -S-, or -CH<sub>2</sub>-; optionally fused on adjacent carbon atoms with one or two phenyl rings and, optionally independently substituted on carbon with one to three substituents and, optionally, independently on nitrogen with a chemically suitable substituent selected from R<sup>4</sup>; or

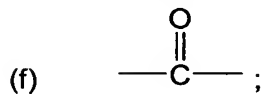
(c) a bicyclic amine containing five to twelve carbon atoms, either bridged or fused and optionally substituted with 1-3 substituents independently selected from R<sup>4</sup>; or

Z<sup>1</sup> and G in combination may be

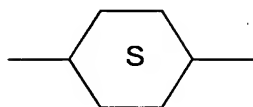


W is

- (a)  $-\text{CH}_2-$ ;
- (b)  $-\text{CH}=\text{CH}-$ ;
- (c)  $-\text{O}-$ ;
- (d)  $-\text{NR}^2-$ ;
- (e)  $-\text{S}(\text{O})_n-$ ;



- (g)  $-\text{CR}^2(\text{OH})-$ ;
- (h)  $-\text{CONR}^2-$ ;
- (i)  $-\text{NR}^2\text{CO}-$ ;



- (j) ; or
- (k)  $-\text{C}\equiv\text{C}-$ ;

R is hydrogen or  $\text{C}_1$ - $\text{C}_6$  alkyl;

$\text{R}^2$  and  $\text{R}^3$  are independently

- (a) hydrogen; or
- (b)  $\text{C}_1$ - $\text{C}_4$  alkyl;

$\text{R}^4$  is

- (a) hydrogen;
- (b) halogen;
- (c)  $\text{C}_1$ - $\text{C}_6$  alkyl;
- (d)  $\text{C}_1$ - $\text{C}_4$  alkoxy;
- (e)  $\text{C}_1$ - $\text{C}_4$  acyloxy;
- (f)  $\text{C}_1$ - $\text{C}_4$  alkylthio;
- (g)  $\text{C}_1$ - $\text{C}_4$  alkylsulfinyl;
- (h)  $\text{C}_1$ - $\text{C}_4$  alkylsulfonyl;
- (i) hydroxy ( $\text{C}_1$ - $\text{C}_4$ )alkyl;

- 5
- (j) aryl (C<sub>1</sub>-C<sub>4</sub>)alkyl;
  - (k) -CO<sub>2</sub>H;
  - (l) -CN;
  - (m) -CONHOR;
  - (n) -SO<sub>2</sub>NHR;
  - (o) -NH<sub>2</sub>;
  - (p) C<sub>1</sub>-C<sub>4</sub> alkylamino;
  - (q) C<sub>1</sub>-C<sub>4</sub> dialkylamino;
  - (r) -NHSO<sub>2</sub>R;
  - 10 (s) -NO<sub>2</sub>;
  - (t) -aryl; or
  - (u) -OH;

R<sup>5</sup> and R<sup>6</sup> are independently C<sub>1</sub>-C<sub>8</sub> alkyl or together form a C<sub>3</sub>-C<sub>10</sub> carbocyclic ring;

15 R<sup>7</sup> and R<sup>8</sup> are independently

- (a) phenyl;
- (b) a C<sub>3</sub>-C<sub>10</sub> carbocyclic ring, saturated or unsaturated;
- (c) a C<sub>3</sub>-C<sub>10</sub> heterocyclic ring containing up to two heteroatoms, selected from -O-, -N- and -S-;
- 20 (d) H;
- (e) C<sub>1</sub>-C<sub>6</sub> alkyl; or
- (f) form a 3 to 8 membered nitrogen containing ring with R<sup>5</sup> or R<sup>6</sup>;

25 R<sup>7</sup> and R<sup>8</sup> in either linear or ring form may optionally be substituted with up to three substituents independently selected from C<sub>1</sub>-C<sub>6</sub> alkyl, halogen, alkoxy, hydroxy and carboxy;

a ring formed by R<sup>7</sup> and R<sup>8</sup> may be optionally fused to a phenyl ring;

e is 0, 1 or 2;

m is 1, 2 or 3;

30 n is 0, 1 or 2;

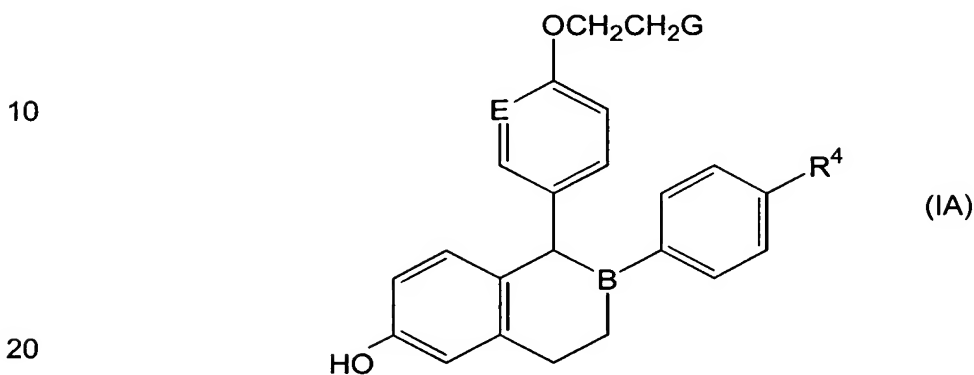
p̄ is 0, 1, 2 or 3;

q is 0, 1, 2 or 3;

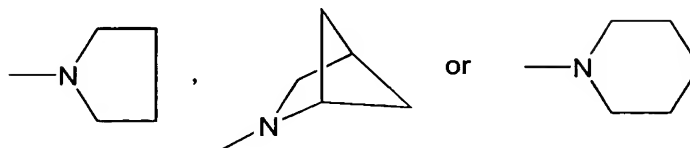
or an optical or geometric isomer thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt or prodrug thereof.

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2. The method of claim 1 wherein the estrogen agonist / antagonist is a compound of formula (IA)



25 wherein G is



$R^4$  is H, OH, F, or Cl; and B and E are independently selected from CH and N or an optical or geometric isomer thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt, or a prodrug thereof.

35 3. The method of claim 1 wherein the estrogen agonist / antagonist is (-)-cis-6-phenyl-5-[4-(2-pyrrolidin-1-yl-ethoxy)-phenyl]-5,6,7,8-tetrahydro-naphthalene-2-ol or an optical or geometric isomer thereof; a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt, or a prodrug thereof.

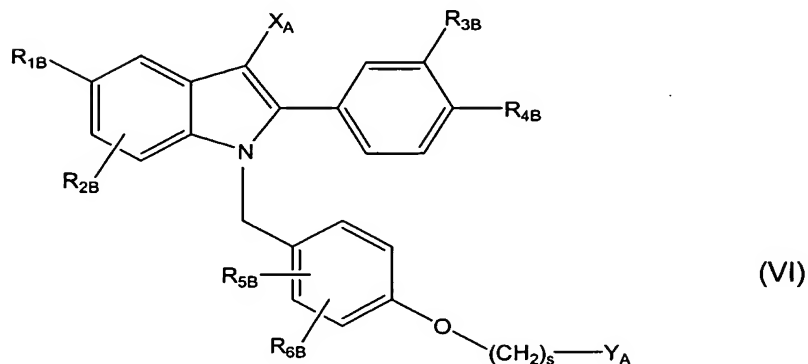
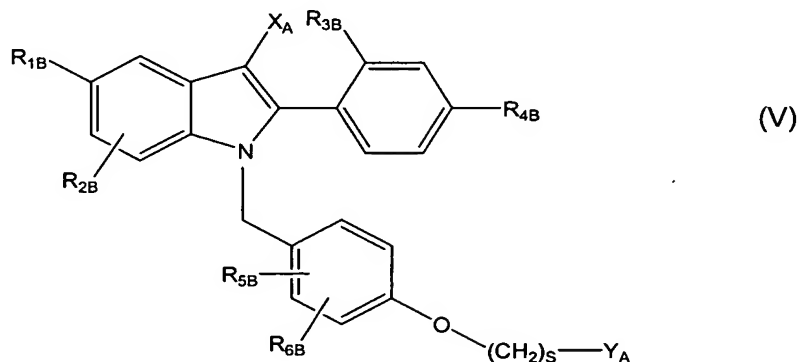
40 4. The method of claim 1 wherein the estrogen agonist / antagonist is (-)-cis-6-phenyl-5-[4-(2-pyrrolidin-1-yl-ethoxy)-phenyl]-5,6,7,8-tetrahydro-naphthalene-2-ol, D-tartrate salt.

45 5. A method of treating cancer of the liver, ovarian cancer, a desmoid tumor, glioma, pancreatic cancer, or renal cell carcinoma, the method comprising the step of administering to a patient having cancer of the liver, ovarian cancer, a desmoid

tumor, glioma, pancreatic cancer, or renal cell carcinoma a therapeutically effective amount of an estrogen agonist / antagonist compound selected from:

- A) 4-hydroxy tamoxifen, droloxifene, toremifene, centchroman, idoxifene, raloxifene, 6-(4-hydroxy-phenyl)-5-[4-(2-piperidin-1-yl-ethoxy)-benzyl]-naphthalen-2-ol, {4-[2-(2-aza-bicyclo[2.2.1]hept-2-yl)-ethoxy]-phenyl}-[6-hydroxy-2-(4-hydroxy-phenyl)-benzo[b]thiophen-3-yl]-methanone, EM-652, EM-800, GW 5638, GW 7604, or an optical or geometric isomer thereof; pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt, or prodrug thereof;

B) a compound of formula V or VI:



wherein:

$R_{1B}$  is selected from H, OH, -O-C(O)-C<sub>1</sub>-C<sub>12</sub> alkyl (straight chain or branched), -O-C<sub>1</sub>-C<sub>12</sub> alkyl (straight chain or branched or cyclic), or halogens or C<sub>1</sub>-C<sub>4</sub> halogenated ethers;

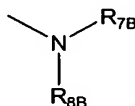
5             $R_{2B}$ ,  $R_{3B}$ ,  $R_{4B}$ ,  $R_{5B}$ , and  $R_{6B}$  are independently selected from H, OH, -O-C(O)-C<sub>1</sub>-C<sub>12</sub> (straight chain or branched), -O-C<sub>1</sub>-C<sub>12</sub> (straight chain or branched or cyclic), halogens, or C<sub>1</sub>-C<sub>4</sub> halogenated ethers, cyano, C<sub>1</sub>-C<sub>6</sub> alkyl (straight chain or branched), or trifluoromethyl;

10            $X_A$  is selected from H, C<sub>1</sub>-C<sub>6</sub> alkyl, cyano, nitro, trifluoromethyl, and halogen;

s is 2 or 3;

$Y_A$  is the moiety:

15



wherein:

a)  $R_{7B}$  and  $R_{8B}$  are independently selected from the group of H, C<sub>1</sub>-C<sub>6</sub> alkyl, or phenyl optionally substituted by CN, C<sub>1</sub>-C<sub>6</sub> alkyl (straight chain or branched), C<sub>1</sub>-C<sub>6</sub> alkoxy (straight chain or branched), halogen, -OH, -CF<sub>3</sub>, or -OCF<sub>3</sub>; or

b)  $R_{7B}$  and  $R_{8B}$  are concatenated to form a five-membered saturated heterocycle containing one nitrogen heteroatom, the heterocycle being optionally substituted with 1-3 substituents independently selected from the group consisting of hydrogen, hydroxyl, halo, C<sub>1</sub>-C<sub>4</sub> alkyl, trihalomethyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, trihalomethoxy, C<sub>1</sub>-C<sub>4</sub> acyloxy, C<sub>1</sub>-C<sub>4</sub> alkylthio, C<sub>1</sub>-C<sub>4</sub> alkylsulfinyl, C<sub>1</sub>-C<sub>4</sub> alkylsulfonyl, hydroxy (C<sub>1</sub>-C<sub>4</sub>)alkyl, -CO<sub>2</sub>H, -CN, -CONHR<sub>1B</sub>, -NH<sub>2</sub>, -NH(C<sub>1</sub>-C<sub>4</sub> alkyl), -N(C<sub>1</sub>-C<sub>4</sub> alkyl)<sub>2</sub>, -NHSO<sub>2</sub>R<sub>1B</sub>, -NHCOR<sub>1B</sub>, -NO<sub>2</sub>, or phenyl optionally substituted with 1-3 (C<sub>1</sub>-C<sub>4</sub>)alkyl; or

30

c)  $R_{7B}$  and  $R_{8B}$  are concatenated to form a six-membered saturated heterocycle containing one nitrogen heteroatom, the heterocycle being optionally substituted with 1-3 substituents independently selected from the group consisting of hydrogen, hydroxyl, halo, C<sub>1</sub>-C<sub>4</sub> alkyl, trihalomethyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, trihalomethoxy, C<sub>1</sub>-C<sub>4</sub> acyloxy,

C<sub>1</sub>-C<sub>4</sub> alkylthio, C<sub>1</sub>-C<sub>4</sub> alkylsulfinyl, C<sub>1</sub>-C<sub>4</sub> alkylsulfonyl, hydroxy (C<sub>1</sub>-C<sub>4</sub>)alkyl, -CO<sub>2</sub>H, -CN, -CONHR<sub>1B</sub>, -NH<sub>2</sub>, -NH(C<sub>1</sub>-C<sub>4</sub> alkyl), -N(C<sub>1</sub>-C<sub>4</sub> alkyl)<sub>2</sub>, -NHSO<sub>2</sub>R<sub>1B</sub>, -NHCOR<sub>1B</sub>, -NO<sub>2</sub>, or phenyl optionally substituted with 1-3 (C<sub>1</sub>-C<sub>4</sub>)alkyl; or

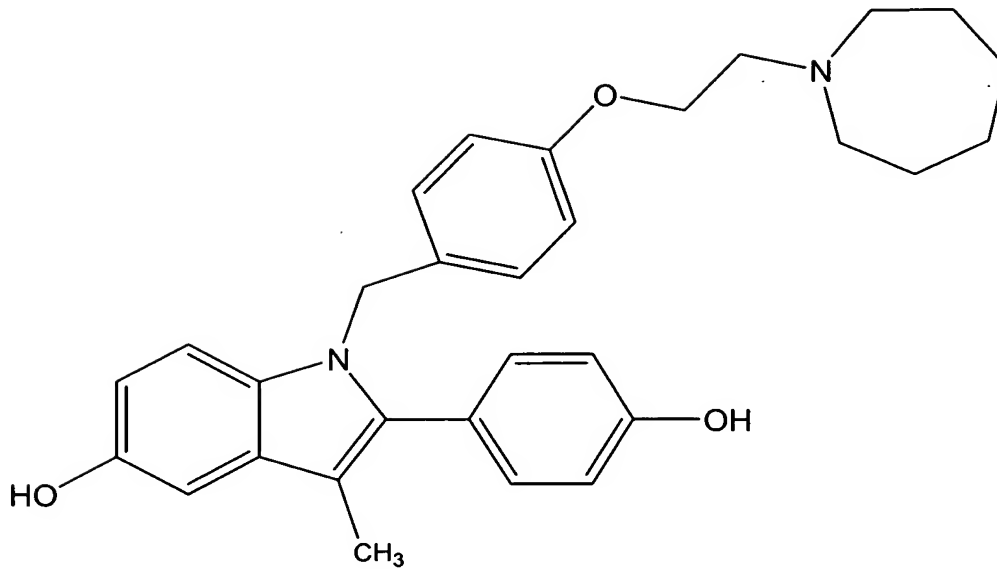
- 5 d) R<sub>7B</sub> and R<sub>8B</sub> are concatenated to form a seven-membered saturated heterocycle containing one nitrogen heteroatom, the heterocycle being optionally substituted with 1-3 substituents independently selected from the group consisting of hydrogen, hydroxyl, halo, C<sub>1</sub>-C<sub>4</sub> alkyl, trihalomethyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, trihalomethoxy, C<sub>1</sub>-C<sub>4</sub> acyloxy, C<sub>1</sub>-C<sub>4</sub> alkylthio, C<sub>1</sub>-C<sub>4</sub> alkylsulfinyl, C<sub>1</sub>-C<sub>4</sub> alkylsulfonyl, hydroxy (C<sub>1</sub>-C<sub>4</sub>)alkyl, 10 -CO<sub>2</sub>H, -CN, -CONHR<sub>1B</sub>, -NH<sub>2</sub>, -NH(C<sub>1</sub>-C<sub>4</sub> alkyl), -N(C<sub>1</sub>-C<sub>4</sub> alkyl)<sub>2</sub>, -NHSO<sub>2</sub> R<sub>1B</sub>, -NHCOR<sub>1B</sub>, -NO<sub>2</sub>, or phenyl optionally substituted with 1-3 (C<sub>1</sub>-C<sub>4</sub>)alkyl; or

- e) R<sub>7B</sub> and R<sub>8B</sub> are concatenated to form an eight-membered saturated heterocycle containing one nitrogen heteroatom, the heterocycle being optionally substituted with 15 1-3 substituents independently selected from the group consisting of hydrogen, hydroxyl, halo, C<sub>1</sub>-C<sub>4</sub> alkyl, trihalomethyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, trihalomethoxy, C<sub>1</sub>-C<sub>4</sub> acyloxy, C<sub>1</sub>-C<sub>4</sub> alkylthio, C<sub>1</sub>-C<sub>4</sub> alkylsulfinyl, C<sub>1</sub>-C<sub>4</sub> alkylsulfonyl, hydroxy (C<sub>1</sub>-C<sub>4</sub>)alkyl, -CO<sub>2</sub>H, -CN, -CONHR<sub>1B</sub>, -NH<sub>2</sub>, -NH(C<sub>1</sub>-C<sub>4</sub> alkyl), -N(C<sub>1</sub>-C<sub>4</sub> alkyl)<sub>2</sub>, -NHSO<sub>2</sub>R<sub>1B</sub>, -NHCOR<sub>1B</sub>, -NO<sub>2</sub>, or phenyl optionally substituted with 1-3 (C<sub>1</sub>-C<sub>4</sub>)alkyl; or

- 20 f) R<sub>7B</sub> and R<sub>8B</sub> are concatenated to form a saturated bicyclic heterocycle containing from 6-12 carbon atoms either bridged or fused and containing one nitrogen heteroatom, the heterocycle being optionally substituted with 1-3 substituents independently selected from the group consisting of hydrogen, hydroxyl, halo, C<sub>1</sub>-C<sub>4</sub> alkyl, trihalomethyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, trihalomethoxy, C<sub>1</sub>-C<sub>4</sub> acyloxy, C<sub>1</sub>-C<sub>4</sub> alkylthio, C<sub>1</sub>-C<sub>4</sub> alkylsulfinyl, C<sub>1</sub>-C<sub>4</sub> alkylsulfonyl, hydroxy (C<sub>1</sub>-C<sub>4</sub>)alkyl, -CO<sub>2</sub> H, -CN, -CONHR<sub>1B</sub>, 25 -NH<sub>2</sub>, -NH(C<sub>1</sub>-C<sub>4</sub> alkyl), -N(C<sub>1</sub>-C<sub>4</sub> alkyl)<sub>2</sub>, -NHSO<sub>2</sub>R<sub>1B</sub>, -NHCOR<sub>1B</sub>, -NO<sub>2</sub>, or phenyl optionally substituted with 1-3 (C<sub>1</sub>-C<sub>4</sub>) alkyl; or an optical or geometric isomer thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt or 30 prodrug thereof;

C) the compound of formula Va:

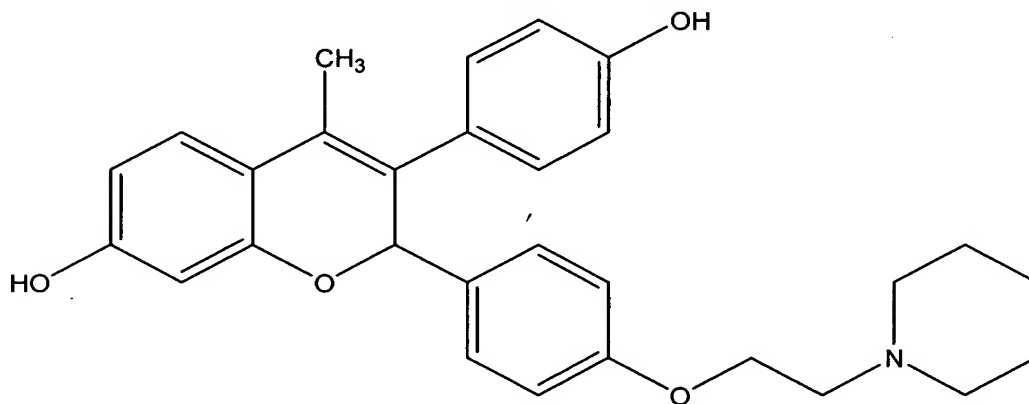




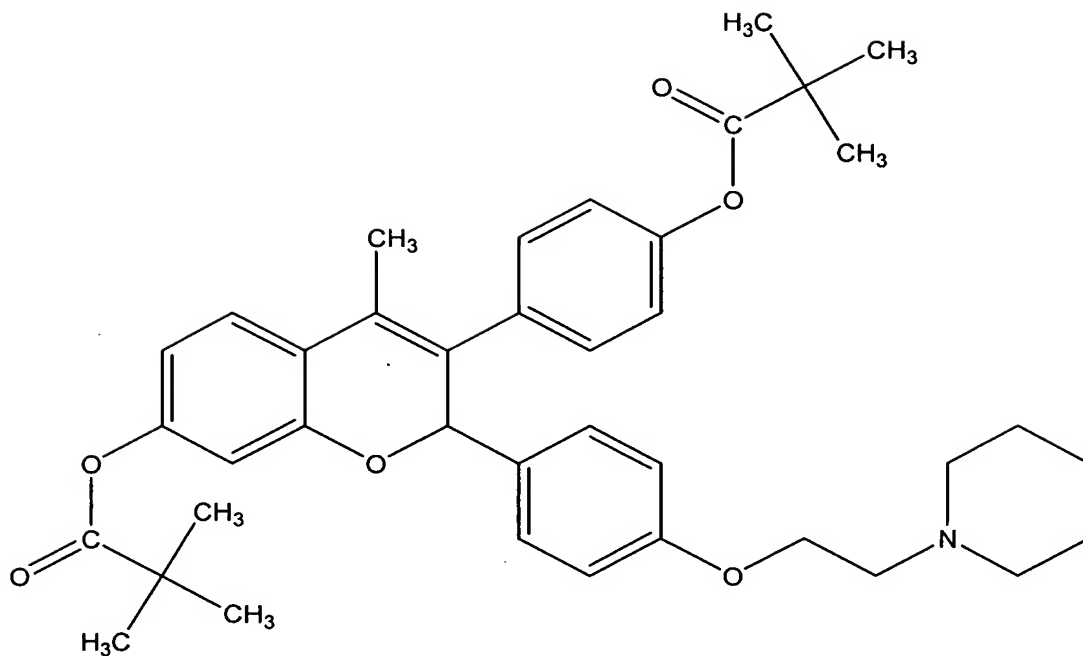
(Va)

- 5 or an optical or geometric isomer thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt or prodrug thereof; or

D) the compound of formula III (EM-652) or formula IV (EM-800) below:



(III)

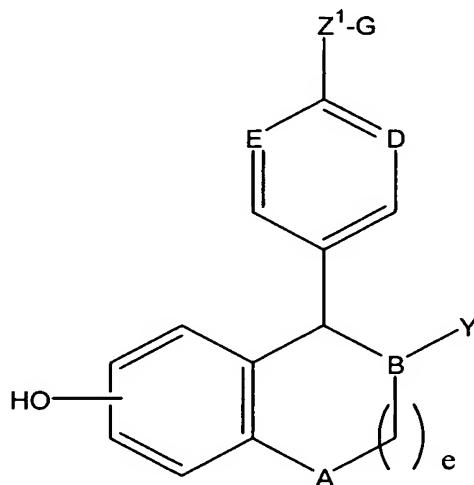


(IV)

- 5 or an optical or geometric isomer thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt or prodrug thereof.



6. A kit for use by a consumer to treat cancer of the liver, ovarian cancer, a desmoid tumor, glioma, pancreatic cancer, or renal cell carcinoma, the kit comprising:  
 (a) a pharmaceutical composition comprising an estrogen agonist / antagonist that  
 10 is compound of formula (I):



(I)

wherein:

5           A is selected from  $\text{CH}_2$  and  $\text{NR}$ ;

          B, D and E are independently selected from CH and N;

          Y is

                  (a)    phenyl, optionally substituted with 1-3 substituents  
independently selected from  $\text{R}^4$ ;

10                   (b)    naphthyl, optionally substituted with 1-3 substituents  
independently selected from  $\text{R}^4$ ;

                  (c)     $\text{C}_3\text{-C}_8$  cycloalkyl, optionally substituted with 1-2 substituents  
independently selected from  $\text{R}^4$ ;

                  (d)     $\text{C}_3\text{-C}_8$  cycloalkenyl, optionally substituted with 1-2  
15   substituents independently selected from  $\text{R}^4$ ;

                  (e)    a five membered heterocycle containing up to two  
heteroatoms selected from the group consisting of  $-\text{O}-$ ,  $-\text{NR}^2-$  and  $-\text{S}(\text{O})_n-$ , optionally  
substituted with 1-3 substituents independently selected from  $\text{R}^4$ ;

                  (f)    a six membered heterocycle containing up to two  
20   heteroatoms selected from the group consisting of  $-\text{O}-$ ,  $-\text{NR}^2-$  and  $-\text{S}(\text{O})_n-$  optionally  
substituted with 1-3 substituents independently selected from  $\text{R}^4$ ; or

                  (g)    a bicyclic ring system consisting of a five or six membered  
heterocyclic ring fused to a phenyl ring, said heterocyclic ring containing up to two  
heteroatoms selected from the group consisting of  $-\text{O}-$ ,  $-\text{NR}^2-$  and  $-\text{S}(\text{O})_n-$ , optionally  
25   substituted with 1-3 substituents independently selected from  $\text{R}^4$ ;

$\text{Z}^1$  is

                  (a)     $-(\text{CH}_2)_p \text{W}(\text{CH}_2)_q-$ ;

                  (b)     $-\text{O}(\text{CH}_2)_p \text{CR}^5\text{R}^6-$ ;

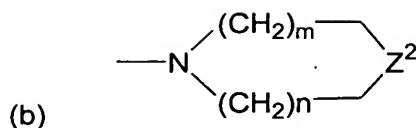
                  (c)     $-\text{O}(\text{CH}_2)_p \text{W}(\text{CH}_2)_q-$ ;

30                   (d)     $-\text{OCHR}^2\text{CHR}^3-$ ; or

                  (e)     $-\text{SCHR}^2\text{CHR}^3-$ ;

          G is

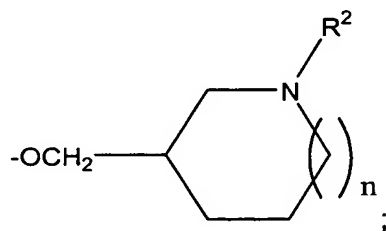
                  (a)     $-\text{NR}^7\text{R}^8$ ;



wherein n is 0, 1 or 2; m is 1, 2 or 3; Z<sup>2</sup> is -NH-, -O-, -S-, or -CH<sub>2</sub>-;  
optionally fused on adjacent carbon atoms with one or two phenyl rings and,  
optionally independently substituted on carbon with one to three substituents and,  
5 optionally, independently on nitrogen with a chemically suitable substituent selected  
from R<sup>4</sup>; or

(c) a bicyclic amine containing five to twelve carbon atoms,  
either bridged or fused and optionally substituted with 1-3 substituents  
independently selected from R<sup>4</sup>; or

10 Z<sup>1</sup> and G in combination may be



W is

- (a) -CH<sub>2</sub>-;  
(b) -CH=CH-;  
(c) -O-;  
(d) -NR<sup>2</sup>-;  
(e) -S(O)<sub>n</sub>-;

- (f) ;  
(g) -CR<sup>2</sup>(OH)-;  
(h) -CONR<sup>2</sup>-;  
(i) -NR<sup>2</sup>CO-;

- (j) ; or  
(k) -C≡C-;

R is hydrogen or C<sub>1</sub>-C<sub>6</sub> alkyl;

25 R<sup>2</sup> and R<sup>3</sup> are independently

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- (a) hydrogen; or  
(b) C<sub>1</sub>-C<sub>4</sub> alkyl;
- R<sup>4</sup> is
- 5 (a) hydrogen;  
(b) halogen;  
(c) C<sub>1</sub>-C<sub>6</sub> alkyl;  
(d) C<sub>1</sub>-C<sub>4</sub> alkoxy;  
(e) C<sub>1</sub>-C<sub>4</sub> acyloxy;  
(f) C<sub>1</sub>-C<sub>4</sub> alkylthio;
- 10 (g) C<sub>1</sub>-C<sub>4</sub> alkylsulfinyl;  
(h) C<sub>1</sub>-C<sub>4</sub> alkylsulfonyl;  
(i) hydroxy (C<sub>1</sub>-C<sub>4</sub>)alkyl;  
(j) aryl (C<sub>1</sub>-C<sub>4</sub>)alkyl;  
(k) -CO<sub>2</sub>H;
- 15 (l) -CN;  
(m) -CONHOR;  
(n) -SO<sub>2</sub>NHR;  
(o) -NH<sub>2</sub>;
- 20 (p) C<sub>1</sub>-C<sub>4</sub> alkylamino;  
(q) C<sub>1</sub>-C<sub>4</sub> dialkylamino;  
(r) -NHSO<sub>2</sub>R;  
(s) -NO<sub>2</sub>;  
(t) -aryl; or  
(u) -OH;
- 25 R<sup>5</sup> and R<sup>6</sup> are independently C<sub>1</sub>-C<sub>8</sub> alkyl or together form a C<sub>3</sub>-C<sub>10</sub> carbocyclic ring;
- R<sup>7</sup> and R<sup>8</sup> are independently
- 30 (a) phenyl;  
(b) a C<sub>3</sub>-C<sub>10</sub> carbocyclic ring, saturated or unsaturated;  
(c) a C<sub>3</sub>-C<sub>10</sub> heterocyclic ring containing up to two heteroatoms, selected from -O-, -N- and -S-;  
(d) H;  
(e) C<sub>1</sub>-C<sub>6</sub> alkyl; or

(f) form a 3 to 8 membered nitrogen containing ring with R<sup>5</sup> or R<sup>6</sup>;

R<sup>7</sup> and R<sup>8</sup> in either linear or ring form may optionally be substituted with up to three substituents independently selected from C<sub>1</sub>-C<sub>6</sub> alkyl, halogen, alkoxy,

5 hydroxy and carboxy;

a ring formed by R<sup>7</sup> and R<sup>8</sup> may be optionally fused to a phenyl ring;

e is 0, 1 or 2;

m is 1, 2 or 3;

n is 0, 1 or 2;

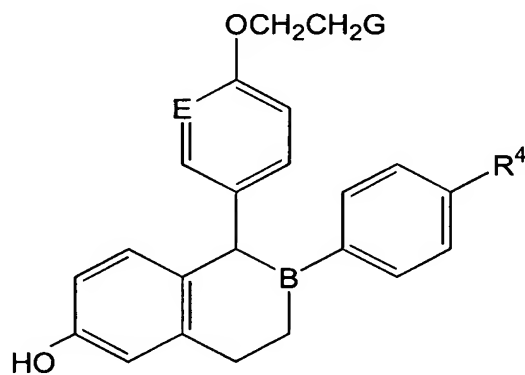
10 p is 0, 1, 2 or 3;

q is 0, 1, 2 or 3;

or an optical or geometric isomer thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt or prodrug thereof; and

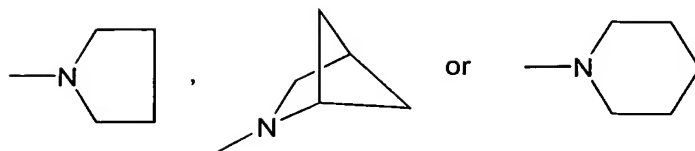
15 (b) instructions describing a method of using the pharmaceutical composition to treat cancer of the liver, ovarian cancer, a desmoid tumor, glioma, pancreatic cancer, or renal cell carcinoma.

7. The kit of claim 6 wherein the estrogen agonist / antagonist is a compound of  
20 formula (IA):



(IA)

wherein G is



;

5  $R^4$  is H, OH, F, or Cl; and B and E are independently selected from CH and N or an optical or geometric isomer thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt, or a prodrug thereof.

10 8. The kit of claim 6 wherein the estrogen agonist / antagonist is (-)-cis-6-phenyl-5-[4-(2-pyrrolidin-1-yl-ethoxy)-phenyl]-5,6,7,8-tetrahydro-naphthalene-2-ol or an optical or geometric isomer thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt, or a prodrug thereof.

15 9. The kit of claim 6 wherein the estrogen agonist / antagonist is (-)-cis-6-phenyl-5-[4-(2-pyrrolidin-1-yl-ethoxy)-phenyl]-5,6,7,8-tetrahydro-naphthalene-2-ol, D-tartrate salt.

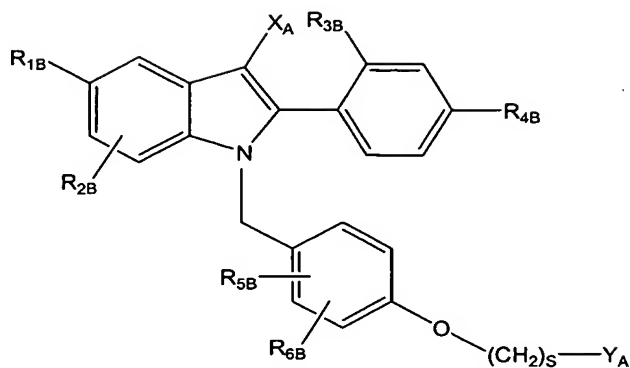
10. A kit for use by a consumer to treat cancer of the liver, ovarian cancer, a desmoid tumor, glioma, pancreatic cancer, or renal cell carcinoma, the kit comprising:

20 (a) a pharmaceutical composition comprising an estrogen agonist / antagonist compound selected from:

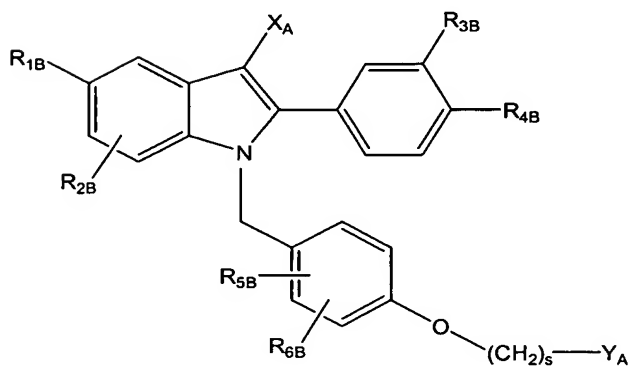
25 A) 4-hydroxy tamoxifen, droloxifene, toremifene, centchroman, idoxifene, raloxifene, 6-(4-hydroxy-phenyl)-5-[4-(2-piperidin-1-yl-ethoxy)-benzyl]-naphthalen-2-ol, {4-[2-(2-aza-bicyclo[2.2.1]hept-2-yl)-ethoxy]-phenyl}-[6-hydroxy-2-(4-hydroxy-phenyl)-benzo[b]thiophen-3-yl]-methanone, EM-652, EM-800, GW 5638, GW 7604, or an optical or geometric isomer thereof; pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt, or prodrug thereof;

B) a compound of formula V or VI:

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(V)



(VI)

wherein:

$R_{1B}$  is selected from H, OH,  $-O-C(O)-C_1-C_{12}$  alkyl (straight chain or branched),  $-O-C_1-C_{12}$  alkyl (straight chain or branched or cyclic), or halogens or  $C_1-C_4$  halogenated ethers;

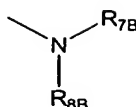
$R_{2B}$ ,  $R_{3B}$ ,  $R_{4B}$ ,  $R_{5B}$ , and  $R_{6B}$  are independently selected from H, OH,  $-O-C(O)-C_1-C_{12}$  (straight chain or branched),  $-O-C_1-C_{12}$  (straight chain or branched or cyclic), halogens, or  $C_1-C_4$  halogenated ethers, cyano,  $C_1-C_6$  alkyl (straight chain or branched), or trifluoromethyl;

$X_A$  is selected from H,  $C_1-C_6$  alkyl, cyano, nitro, trifluoromethyl, and halogen;

s is 2 or 3;

$Y_A$  is the moiety:





wherein:

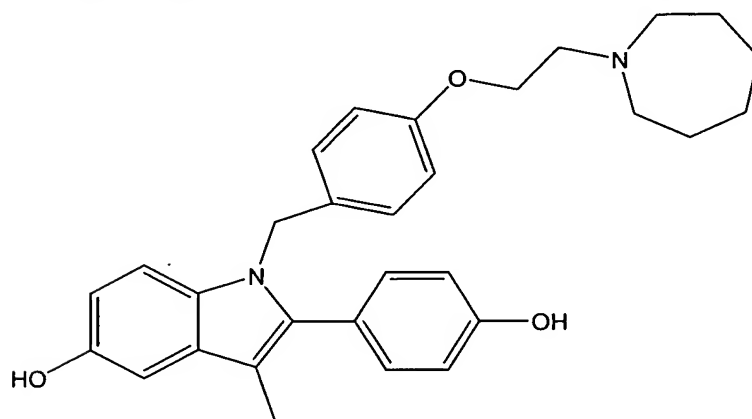
- 5 a)  $\text{R}_{7\text{B}}$  and  $\text{R}_{8\text{B}}$  are independently selected from the group of H,  $\text{C}_1\text{-C}_6$  alkyl, or phenyl optionally substituted by CN,  $\text{C}_1\text{-C}_6$  alkyl (straight chain or branched),  $\text{C}_1\text{-C}_6$  alkoxy (straight chain or branched), halogen, -OH, - $\text{CF}_3$ , or - $\text{OCF}_3$ ; or
- 10 b)  $\text{R}_{7\text{B}}$  and  $\text{R}_{8\text{B}}$  are concatenated to form a five-membered saturated heterocycle containing one nitrogen heteroatom, the heterocycle being optionally substituted with 1-3 substituents independently selected from the group consisting of hydrogen, hydroxyl, halo,  $\text{C}_1\text{-C}_4$  alkyl, trihalomethyl,  $\text{C}_1\text{-C}_4$  alkoxy, trihalomethoxy,  $\text{C}_1\text{-C}_4$  acyloxy,  $\text{C}_1\text{-C}_4$  alkylthio,  $\text{C}_1\text{-C}_4$  alkylsulfinyl,  $\text{C}_1\text{-C}_4$  alkylsulfonyl, hydroxy ( $\text{C}_1\text{-C}_4$ )alkyl, - $\text{CO}_2\text{H}$ , -CN, - $\text{CONHR}_{1\text{B}}$ , - $\text{NH}_2$ , - $\text{NH}(\text{C}_1\text{-C}_4 \text{ alkyl})$ , - $\text{N}(\text{C}_1\text{-C}_4 \text{ alkyl})_2$ , - $\text{NHSO}_2\text{R}_{1\text{B}}$ , - $\text{NHCOR}_{1\text{B}}$ ,  
15 - $\text{NO}_2$ , or phenyl optionally substituted with 1-3 ( $\text{C}_1\text{-C}_4$ )alkyl; or
- 20 c)  $\text{R}_{7\text{B}}$  and  $\text{R}_{8\text{B}}$  are concatenated to form a six-membered saturated heterocycle containing one nitrogen heteroatom, the heterocycle being optionally substituted with 1-3 substituents independently selected from the group consisting of hydrogen, hydroxyl, halo,  $\text{C}_1\text{-C}_4$  alkyl, trihalomethyl,  $\text{C}_1\text{-C}_4$  alkoxy, trihalomethoxy,  $\text{C}_1\text{-C}_4$  acyloxy,  $\text{C}_1\text{-C}_4$  alkylthio,  $\text{C}_1\text{-C}_4$  alkylsulfinyl,  $\text{C}_1\text{-C}_4$  alkylsulfonyl, hydroxy ( $\text{C}_1\text{-C}_4$ )alkyl, - $\text{CO}_2\text{H}$ , -CN, - $\text{CONHR}_{1\text{B}}$ , - $\text{NH}_2$ , - $\text{NH}(\text{C}_1\text{-C}_4 \text{ alkyl})$ , - $\text{N}(\text{C}_1\text{-C}_4 \text{ alkyl})_2$ , - $\text{NHSO}_2\text{R}_{1\text{B}}$ , - $\text{NHCOR}_{1\text{B}}$ ,  
25 - $\text{NO}_2$ , or phenyl optionally substituted with 1-3 ( $\text{C}_1\text{-C}_4$ )alkyl; or
- 30 d)  $\text{R}_{7\text{B}}$  and  $\text{R}_{8\text{B}}$  are concatenated to form a seven-membered saturated heterocycle containing one nitrogen heteroatom, the heterocycle being optionally substituted with 1-3 substituents independently selected from the group consisting of hydrogen, hydroxyl, halo,  $\text{C}_1\text{-C}_4$  alkyl, trihalomethyl,  $\text{C}_1\text{-C}_4$  alkoxy, trihalomethoxy,  $\text{C}_1\text{-C}_4$  acyloxy,  $\text{C}_1\text{-C}_4$  alkylthio,  $\text{C}_1\text{-C}_4$  alkylsulfinyl,  $\text{C}_1\text{-C}_4$  alkylsulfonyl, hydroxy ( $\text{C}_1\text{-C}_4$ )alkyl, - $\text{CO}_2\text{H}$ , -CN, - $\text{CONHR}_{1\text{B}}$ , - $\text{NH}_2$ , - $\text{NH}(\text{C}_1\text{-C}_4 \text{ alkyl})$ , - $\text{N}(\text{C}_1\text{-C}_4 \text{ alkyl})_2$ , - $\text{NHSO}_2\text{R}_{1\text{B}}$ , - $\text{NHCOR}_{1\text{B}}$ , - $\text{NO}_2$ , or phenyl optionally substituted with 1-3 ( $\text{C}_1\text{-C}_4$ )alkyl; or
- e)  $\text{R}_{7\text{B}}$  and  $\text{R}_{8\text{B}}$  are concatenated to form an eight-membered saturated heterocycle containing one nitrogen heteroatom, the heterocycle being optionally substituted with

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- 1-3 substituents independently selected from the group consisting of hydrogen, hydroxyl, halo, C<sub>1</sub>-C<sub>4</sub> alkyl, trihalomethyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, trihalomethoxy, C<sub>1</sub>-C<sub>4</sub> acyloxy, C<sub>1</sub>-C<sub>4</sub> alkylthio, C<sub>1</sub>-C<sub>4</sub> alkylsulfinyl, C<sub>1</sub>-C<sub>4</sub> alkylsulfonyl, hydroxy (C<sub>1</sub>-C<sub>4</sub>)alkyl, -CO<sub>2</sub>H, -CN, -CONHR<sub>1B</sub>, -NH<sub>2</sub>, -NH(C<sub>1</sub>-C<sub>4</sub> alkyl), -N(C<sub>1</sub>-C<sub>4</sub> alkyl)<sub>2</sub>, -NHSO<sub>2</sub>R<sub>1B</sub>,  
 5 -NHCOR<sub>1B</sub>, -NO<sub>2</sub>, or phenyl optionally substituted with 1-3 (C<sub>1</sub>-C<sub>4</sub>)alkyl; or

- f) R<sub>7B</sub> and R<sub>8B</sub> are concatenated to form a saturated bicyclic heterocycle containing from 6-12 carbon atoms either bridged or fused and containing one nitrogen heteroatom, the heterocycle being optionally substituted with 1-3 substituents  
 10 independently selected from the group consisting of hydrogen, hydroxyl, halo, C<sub>1</sub>-C<sub>4</sub> alkyl, trihalomethyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, trihalomethoxy, C<sub>1</sub>-C<sub>4</sub> acyloxy, C<sub>1</sub>-C<sub>4</sub> alkylthio, C<sub>1</sub>-C<sub>4</sub> alkylsulfinyl, C<sub>1</sub>-C<sub>4</sub> alkylsulfonyl, hydroxy (C<sub>1</sub>-C<sub>4</sub>)alkyl, -CO<sub>2</sub>H, -CN, -CONHR<sub>1B</sub>, -NH<sub>2</sub>, -NH(C<sub>1</sub>-C<sub>4</sub> alkyl), -N(C<sub>1</sub>-C<sub>4</sub> alkyl)<sub>2</sub>, -NHSO<sub>2</sub>R<sub>1B</sub>, -NHCOR<sub>1B</sub>, -NO<sub>2</sub>, or phenyl optionally substituted with 1-3 (C<sub>1</sub>-C<sub>4</sub>) alkyl; or an optical or geometric isomer  
 15 thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt or prodrug thereof;

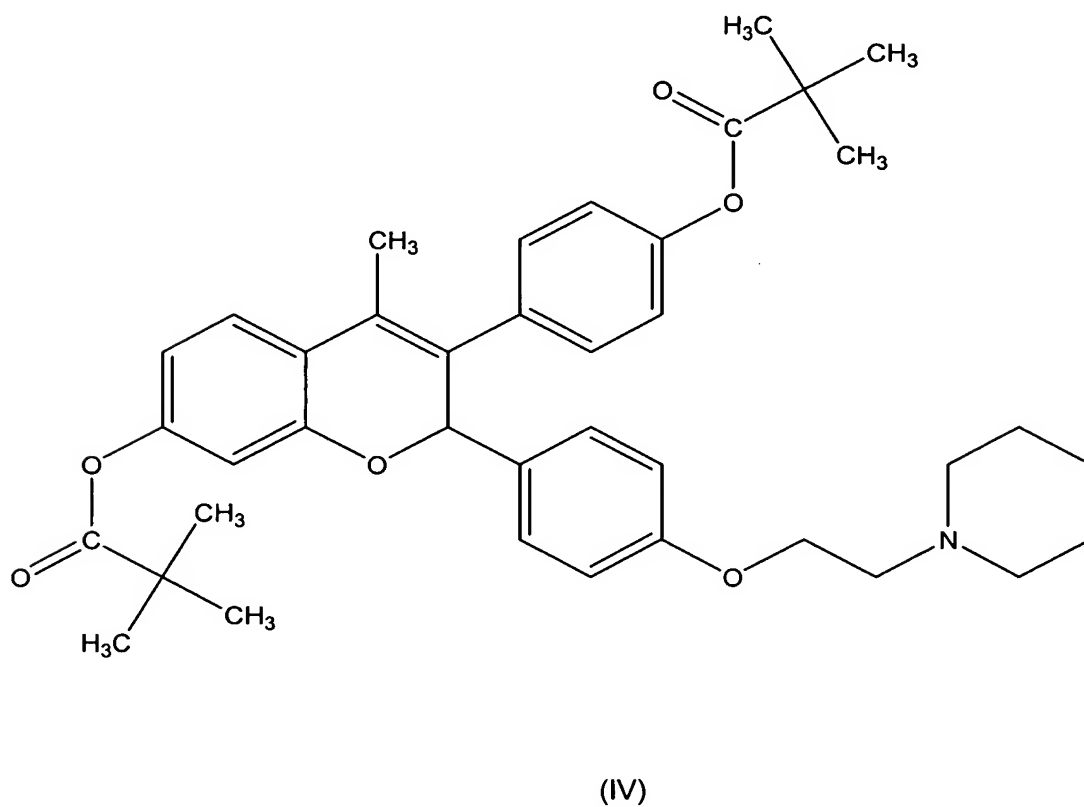
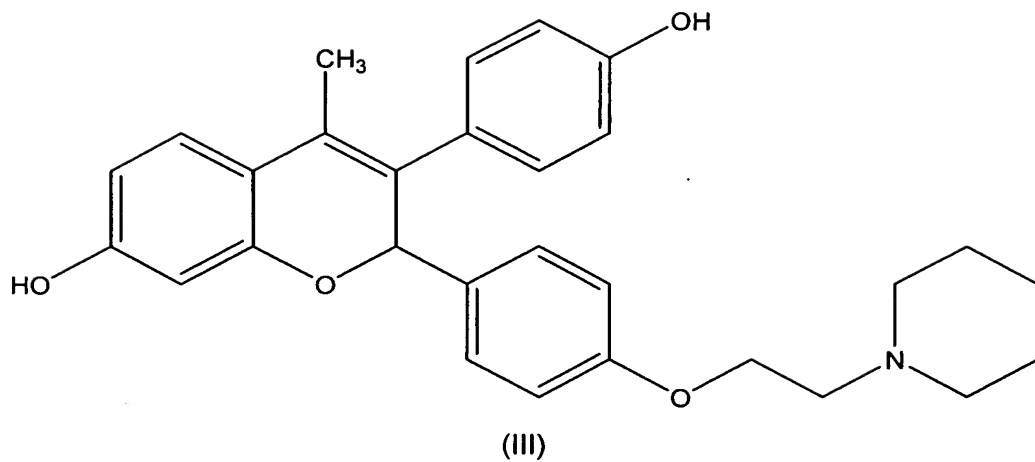
C) the compound of formula Va (TSE-424) below:



(Va)

or an optical or geometric isomer thereof; or a pharmaceutically acceptable salt, N-oxide, ester, quaternary ammonium salt or prodrug thereof; or

- 25 D) the compound of formula III (EM-652) or formula IV (EM-800) below:



or an optical or geometric isomer thereof; or a pharmaceutically acceptable  
 10 salt, N-oxide, ester, quaternary ammonium salt or prodrug thereof; and

(b) instructions describing a method of using the pharmaceutical composition to treat cancer of the liver, ovarian cancer, a desmoid tumor, glioma, pancreatic cancer, or renal cell carcinoma.

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11. The kit of claim 6 wherein the kit further comprises an additional compound that is useful to treat cancer of the liver, ovarian cancer, a desmoid tumor, glioma, pancreatic cancer, or renal cell carcinoma.

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